

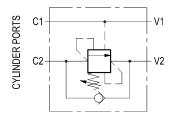
RE 18307-43/04.10 Replaces: RE 00171/02.07

1/2

Single counterbalance



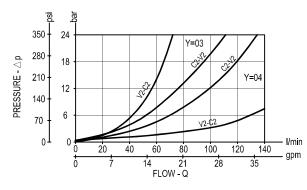
VBSO-SE 05.41.01 - X - Y - Z



Description

When pressure at V2 rises above the spring bias pressure, the check valve poppet is pushed away from the seat and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at V1-C1, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2, and any back-pressure at V2 is additive to the pressure setting in all functions.

Performance



Technical data

Hydraulic

Operating pressure bar	psi) up to 210 (3000)
------------------------	-----------------------

Max. flow: see performance graph

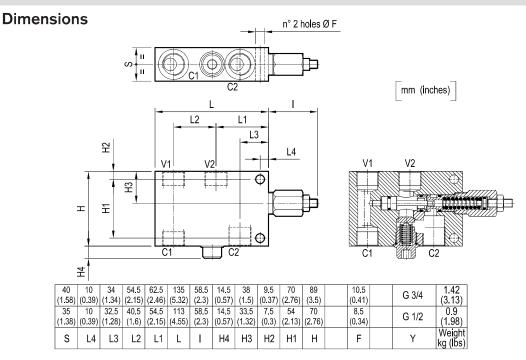
Relief setting: at least 1.3 times the highest expected load.

General

Manifold material	Aluminium
Note: aluminium bodies are often strong enough for operating pressures	
exceeding 210 bar (3000 psi), depending	from the fatigue life expected in the
specific application. If in doubt, consult or	ur Service Network.

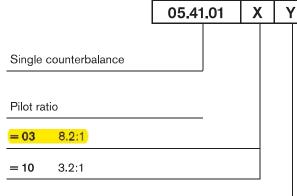
Weight		see "Dimensions"
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (212)
Other technical data		see data sheet RE 18350-50

Note: for applications outside these parameters, please consult us.



Z

Ordering code



	ı	ı
Port sizes	V1-V2	C1-C2
= 03	G 1/2	G 1/2
= 04	G 3/4	G 3/4

	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (I/min.)
	bar (psi)	(psi/turn)	bar (psi)
= 20	60-210	64	200
	(870-3000)	(928)	(2900)
= 35	100-350	106	350
	(1450-5000)	(1537)	(5000)

Туре	Material number
054101030320000	R930001654
05410103033500A	R930001655
054101030420000	R930001658
05410103043500A	R930001659
054101100320000	R930000088
05410110033500A	R930001662
054101100420000	R930001663
05410110043500A	R930001664

Туре	Material number

Bosch Rexroth Oil Control S.p.A. Via Leonardo da Vinci 5 P.O. Box no. 5

41015 Nonantola - Modena, Italy

Tel. +39 059 887 611 Fax +39 059 547 848

motion-control-valves@oilcontrol.com www.boschrexroth.com

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent.

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.